

PREHĽAD RIEŠENÝCH VÝSKUMNÝCH PRÁČ

1. Prehľad riešených výskumných úloh

Zahraničné projekty (3):

1. EEA/NORWAY GRANTS, FBR-PDI-022, Increasing the productivity of the construction industry through Lean Construction concept, 2023-2024, riešiteľ
2. Erasmus+, 2019-1-SK01-KA203-060778, Construction Safety with Education and Training using Immersive Reality, 2019-2022, riešiteľ
3. Erasmus IP, 13203-1078/KOSICE03 - Integrated approaches to the design and management of buildings reconstruction, 2013, riešiteľ

Domáce projekty (14):

APVV projekty (3)

1. APVV-22-0576, Výskum digitálnych technológií a nástrojov informačného modelovania pre navrhovanie a hodnotenie parametrov udržateľnosti stavieb v kontexte dekarbonizácie a cirkulárneho stavebníctva, 2023-2027, riešiteľ
2. APVV-18-0360, Aktívna hybridná infraštruktúra pre špongiové mesto, , 2019-2023, riešiteľ
3. APVV-17-0549, Výskum znalostných a virtuálnych technológií podporujúcich inteligentné projektovanie a realizáciu stavieb s dôrazom na ich ekonomickú efektívnosť a udržateľnosť, 2018-2022, riešiteľ

VEGA projekty (6)

1. 1/0336/22, Výskum účinkov metód Lean Production/Lean Construction na zvyšovanie efektívnosti on-site a off-site technológií výstavby, 2022-2025, riešiteľ
2. 1/0557/18, Výskum a vývoj procesných a produktových inovácií moderných metód výstavby v kontexte princípov Industry 4.0, 2018-2021, riešiteľ
3. 1/0828/17, Výskum a využitie znalostne orientovaných systémov pre potreby modelovania nákladových a ekonomických parametrov v informačnom modeli budov, 2017-2020, riešiteľ
4. 1/0677/14, Výskum zvyšovania efektívnosti výstavby prostredníctvom MMC technológií, 2014-2017, riešiteľ
5. 1/0562/14 „Vplyv využívania nástrojov Business Intelligence na výkonnosť podnikov“, 2014-2016, výskumný pracovník
6. 1/0840/11, Multi-dimenzionálne prístupy podporujúce integrované navrhovanie a riadenie stavebných projektov, 2011-2014, riešiteľ

KEGA projekty (4)

1. 009TUKE-4/2022, Interaktívny nástroj pre návrh bezpečného staveniska v prostredí imerzívnej virtuálnej reality, 2022-2024, riešiteľ
2. 038TUKE-4/2020, Podpora platformy Stavebníctvo 4.0 implementáciou digitálnych technológií do procesu vzdelávania, 2020-2022, riešiteľ
3. 059TUKE-4/2019, M-learningový nástroj pre inteligentné modelovanie parametrov staveniskovej štruktúry v prostredí zmiešanej reality, 2019-2021, riešiteľ

4. 059TUKE-4/2017, Podpora zručností využívania BIM technológie v životnom cykle stavby, 2017-2019, riešiteľ

OSTATNÉ projekty (1)

1. OPKZP-PO1-INFO-2017-28, Zvyšovanie informovanosti obyvateľov najmä Košického a Prešovského samosprávneho kraja v oblasti udržateľnosti vodných zdrojov s dôrazom na zapojenie žiakov škôl, 2019-2021

Recenzie vydaných a nevydaných prác (monografie, VŠ učebnice, skriptá, vedecké a odborné články v časopisoch a zborníkoch, kvalifikačné práce, výskumné správy)**Posudky do časopisov a konferenčných zborníkov WoS/Scopus (53)**

1. Automation in Construction, Development of a Knowledge-Based Technological Competency Analytics and Innovations System for Project Managers, 2023
2. Journal of Building Engineering, BIM methodology for cost analysis, sustainability and management of steel structures with reconfigurable joints for industrial structures, 2023
3. Ain Shams Engineering Journal, Three-dimensional laser scanning for structure documentation and construction management: A case study of renovation and rebuilt of metro tunnels, 2023
4. Ain Shams Engineering Journal Development of a knowledge taxonomy and a tool to support business development decisions in construction companies, 2023
5. Construction Management and Economics, Influence of Organization Environment on Contractor's Inter-Regional Market Entry Practice: An Industry-Level Approach Based on Bayesian Logistic Regression Model, 2023
6. Buildings, Developing a reference framework for claim management office: a multi-method approach of an international construction firm, 2023
7. Journal of Building Engineering, Exploring the Project Manager Competencies Required by Sustainable Project Management: A Fuzzy ISM–MICMAC Approach, 2022
8. Buildings, Reducing Cost Overrun in Public Housing Projects: A Simplified Reference Class Forecast for Small Island Developing States, 2022
9. Ain Shams Engineering Journal, BIM adoption in sustainability, energy modelling and implementing using ISO 19650: A review, 2022
10. Computers in Industry, Blockchain supported BIM data provenance for construction projects, 2022
11. Performance management in civil engineering: a systematic literature review
12. Organization, Technology and Management in Construction: an International Journal, Technological Innovation in Architecture and Engineering Education - An Investigation on X, Y and Z Generations in Turkey, 2022
13. Organization, Technology and Management in Construction: an International Journal, The factors that affecting on constructability in Iraq, 2022
14. Ain Shams Engineering Journal, BIM-based energy analysis and optimization using insight 360 (case study), 2022
15. Computers in Industry, A Decision-Support Tool for Risk and Complexity Assessment and Visualization in Construction Projects, 2022
16. Technology in Society, Trust and Economic Performance in the Digital Age, 2022
17. Electronic Journal e -GFOS, Processes, Simulation-based Approach for Multi-echelon Inventory System Selection: Case of Distribution Systems, 2022
18. Buildings, The effect of spatial configuration on sales in complex commercial facility: Focused on the development of sales prediction model, 2022
19. Energies, Energy Load Analysis According to Environmental Control Strategy of Partially Applied Electrochromic Smart Window, 2022

20. Sustainability, A Study on Determination of Lean Production Knowledge of Employees in Building Inspection Organizations, 2022
21. Buildings, A Multiscale Modelling Approach to Support Knowledge Representation of Building Codes, 2022
22. Buildings, Barriers to Adopting Lean Construction in Small and Medium-Sized Enterprises (SMEs) - The Case of Peru, 2022
23. Buildings, A conceptual model for selecting Early Contractor Involvement (ECI) for a project, 2022
24. Buildings, Exploring the Nature and Impact of Client-Related Delays on Contemporary Saudi Construction Projects, 2022
25. Buildings, Towards Automated Structural Stability Design of Buildings- A BIM-Based Solution, 2022
26. Buildings, What Drives Construction Practitioners' Acceptance of Intelligent Surveillance Systems? An Extended Technology Acceptance Model, 2022
27. Energies, A fuzzy multi-criteria model for municipal waste treatment systems evaluation including energy recovery, 2021
28. Ain Shams Engineering Journal, BIM Adoption as a Perceived Source of Competitive Advantages and Competitive Strategies for Construction Consultancy SMEs: Evidences from Vietnam, 2021
29. Ain Shams Engineering Journal, Insight on the Adaptability of Building Information Modeling (BIM) in the Construction Projects towards Safety, 2021
30. Ain Shams Engineering Journal, Exploring a body of knowledge for promoting the Building Information Model for Facility Management, 2021
31. Ain Shams Engineering Journal, Exploring a body of knowledge for promoting the Building Information Model for Facility Management, 2021
32. Ain Shams Engineering Journal, Impacts of Human Resource Management and Knowledge Management on Non- financial Organizational Performance: Evidence of Thai Infrastructure Construction Firms, 2021
33. Project Leadership & Society, Digital intelligence: a must-have for project managers, 2021
34. Technology in Society, The Composite Impact of ICT Industry on Lowering Carbon Intensity: From Perspective of Regional Heterogeneity, 2021
35. Journal of Building Engineering, Determination of life cycle costs of a building structure at different stages of a construction project, 2021
36. Journal of Building Engineering, Integration of the structural Project into the BIM paradigm: a literature review, 2021
37. ISARC 2021, Smart Contract Using Blockchain In Construction and Infrastructure Sector in the COVID 19 Pandemic, 2021
38. Computers in Industry, Airport Built Environment Risk Factors Evaluation with BIM Technology, 2021
39. Computers in Industry, CAD to BIM versus scan to BIM, 2021
40. Applied Sciences, On the BIM interoperability by IFC standard, an assessment from the structural engineering and design viewpoint, 2021
41. Buildings, Modelling the Relationship Coupled with Current practice of-waste generation and Sustainable Construction Waste Minimization the mediating role of Policy Related Factors: PLS-SEM, 2021
42. Applied Sciences, An Investigation of Work-Based Education and Training Needs for Effective BIM Adoption and Implementation: An Organisational Upskilling Model, 2021
43. Sustainability, Investigation on maintenance technology of large-scale public venues based on BIM technology, 2021
44. Sustainability, CE Marking of Construction Products—Evolution of the European Approach to Harmonisation of Construction Products in the Light of Environmental Sustainability Aspects, 2021
45. Buildings, Development and validation of building control algorithm energy management, 2021
46. Sustainability, The institutional drivers of social procurement in the Australian construction industry, 2020

47. Mathematics, Short-term scheduling model of cluster tool in wafer fabrication, 2021
48. Applied Sciences, Developing the optimal policy for crashing processes duration to increase robustness of construction schedules, 2020
49. Sustainability, Factors driving success of cost management practices in Integrated Project Delivery (IPD), 2020
50. Organization, Technology and Management in Construction, Assessing the Role and Significance of Project Selection by the Contractors in Saudi Construction Industry, 2020
51. Open innovation platforms as public policy tools boosting knowledge co- creation: an analysis of the Demola model
52. Management Manufacturing Systems 2020, Enhancing the Aircraft maintenance management process for increasing safety, 2020
53. Management Manufacturing Systems 2020, Analysis of the Possibilities of Increasing the Efficiency of a Manufacturing Company through the Application of an Innovative Marketing Strategy, 2020

Posudky do ostatných časopisov a zborníkov (8)

1. Selected Scientific Papers - Journal of Civil Engineering, Improvement of Productivity in Buildings Construction, 2023
2. Young Scientist, Application of Project Management Tools in Early Planning Phases to Optimize the Impact on Quality, Cost and Time: A Case Study, 2022
3. Young Scientist, IoT and 5G enabled construction detection model, 2020
4. Matec, Planning of railway engineering works including rail traffic disruptions
5. Matec, Risk factors for delays in rail investments implemented in the Design & Build contracts
6. MATEC, A study on the state of knowledge of managers of construction sites in the field of occupational safety
7. 45th anniversary of the establishment of the Faculty of civil engineering, Survey of consumer preferences in the field of wooden buildings, 2021
8. 45th anniversary of the establishment of the Faculty of civil engineering, Digital preservation of the Jesuitas Church in Valencia (Spain) using 3D laser scanning, 2021

Členstvo v Redakčných radách domácich a zahraničných časopisov (1)

1. Sustainability, Recent Advances in Green Building Projects and Sustainable Design, guest editor, 2023

2. Prehľad realizovaných technických projektov alebo umeleckých projektov

3. Patentov a autorských osvedčení, vynálezov a technických diel

4. Prehľad prednášok a prednáškových pobytov doma a v zahraničí (9)

Prednáškové pobyty a stáže v zahraničí (9)

1. Erasmus+, University of Rijeka, Chorvátsko, trainee mobility, 2023
2. Erasmus+, University of Maribor, Slovinsko, teaching mobility, 2022
3. Invited lecture, University of Maribor, Slovinsko, 2022
4. Erasmus+, Josip Juraj Strossmayer University of Osijek, teaching mobility, 2021
5. Erasmus+, University of Maribor, Slovinsko, teaching mobility, 2021
6. Erasmus+, Valencia Polytechnic University - 2019
7. AdMas, Brno University of Technology - AdMaS - Advanced materials, structures and technologies, Trainee program, 2018
8. Saia, n.o., University of Zagreb, teaching mobility, 2017

9. Erasmus+, Cracow University of Technology, Poland, PhD mobility, 2015

5. Iné

Ocenenia

1. Buildings, Winners, 2021 Best paper award, Construction Waste Audit in the Framework of Sustainable Waste Management in Construction Projects—Case Study, M. Spišáková, P. Mésároš, T. Mandičák
2. Koneencia Juniorstav, 2. miesto, v rámci 16. Odborné konferencie doktorandského studia JUNIORSTAV 2014, v jednaní 5 MANAGMENT SATVEBNÍCTVÍ

Členstvá (11)

1. Člen IPMA Slovakia, od 2023 – trvá
2. člen Akademického senátu, Stavebnej fakulty TUKE, od 2018 – 2022
3. manažér Ústavu technológie, ekonomiky a manažmentu v stavebníctve pre publikačnú činnosť, Stavebná fakulta TUKE, od 2021- trvá
4. predseda propagačnej komisie SvF TUKE, 2018-2022
5. člen Akademického senátu TUKE, od 2014 - 2016
6. Člen vo vedeckom výbore konferencie: 3rd International Conference “Business meets Technology, Valencia
7. člen organizačného výboru Konferencie „Znalostné a virtuálne technológie podporujúce inteligentné projektovanie a realizáciu stavieb s dôrazom na ekonomickú udržateľnosť“, 3. – 4. 12. 2019, Štrbské pleso
8. člen organizačného výboru Konferencie „Knowledge-based and virtual technologies for intelligent designing and realization of building projects“, 7.-8.12.2020, on-line
9. člen organizačného výboru konferencie Oceňovanie a riadenie stavebných projektov 2013, 25. – 26.4. 2013, Košice
10. člen organizačného výboru konferencie Young scientist 2016, 14. – 15. 4. 2016, Vysoké Tatry, Štrbské Pleso
11. člen organizačného výboru konferencie Oceňovanie a riadenie stavebných projektov 2013, 25. – 26.4. 2013, Košice